SAMSUNG CE935

MODEL

SERVICE MANUAL

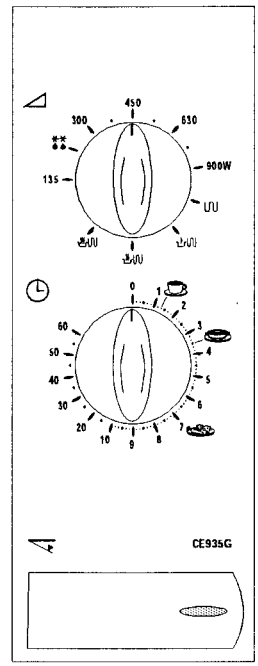
2. Specifications

2-1 Table of Specifications

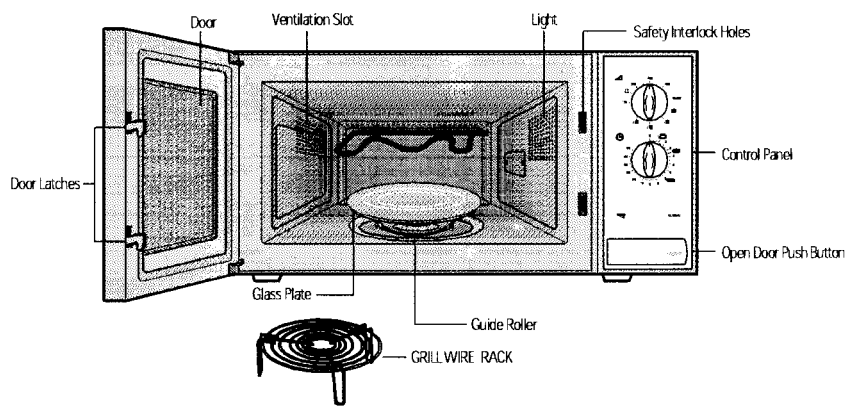
ITEM / MODEL	CE935G
TIMER	60 MINUTES
POWER SOURCE	230V/50HZ, AC
POWER CONSUMPTION	MICROWAVE : 1,500W,GRILL : 1,300W
OUTPUT POWER	FROM135W TO 900W (6 LEVEL POWER INCLUDING DEFROST)
	(IEC-705 TEST PROCEDURE)
OPERATING FREQUENCY	2,450MHz
MAGNETRON	OM75PH(31)
COOLING METHOD	COOLING FAN MOTOR
OUTSIDE DIMENSIONS	517(W) x 298(H) x 385(D)
NET WEIGHT	20Kg.
SHIPPING WEIGHT	23Kg

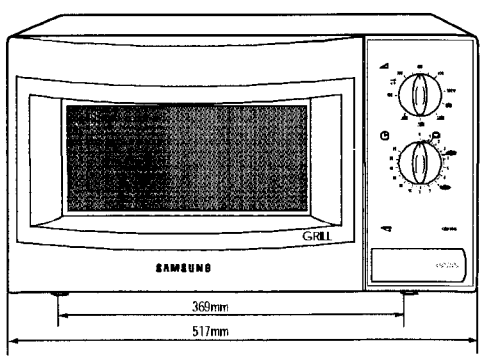
3. Operating Instructions

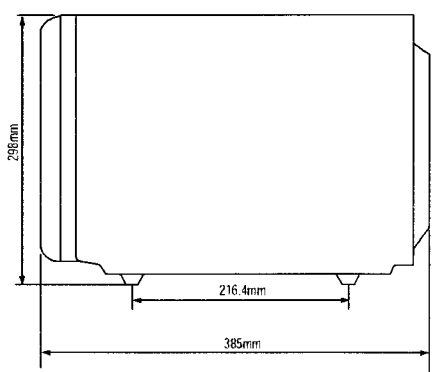
3-1 Control Panel



3-2 Features & External Views







4. Disassembly and Reassembly

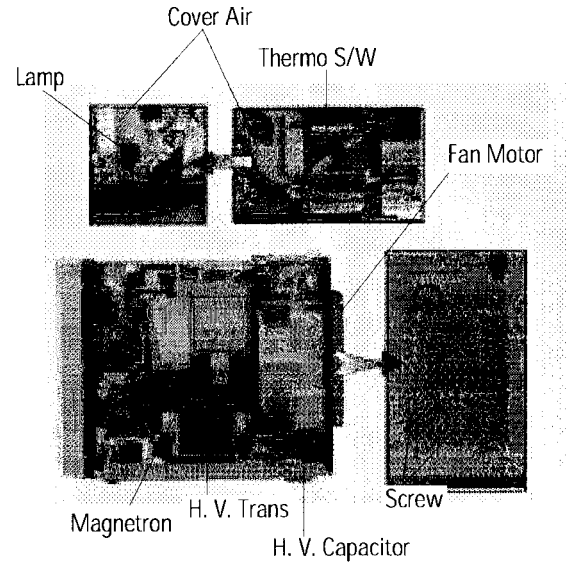
4-1 Replacement of Magnetron, Motor Assembly and Lamp

Remove the magnetron including the shield case, permanent magnet, choke coils and capacitors (all of which are contained in one assembly).

1. Disconnect all lead wires from the magnetron and lamp.
2. Remove the air cover.
3. Remove screws securing the magnetron to the wave guide.
4. Take out the magnetron very carefully.
5. Remove screws from the back panel.
6. Remove the assy noise filter.
7. Take out the fan motor.
8. Remove the oven lamp by pulling out from hole of air cover carefully.

NOTE1: When removing the magnetron, make sure that its antenna does not hit any adjacent parts, or it may be damaged.

NOTE2: When replacing the magnetron, be sure to remount the magnetron gasket in the correct position and make sure the gasket is in good condition.



4-2 Replacement of High Voltage Transformer

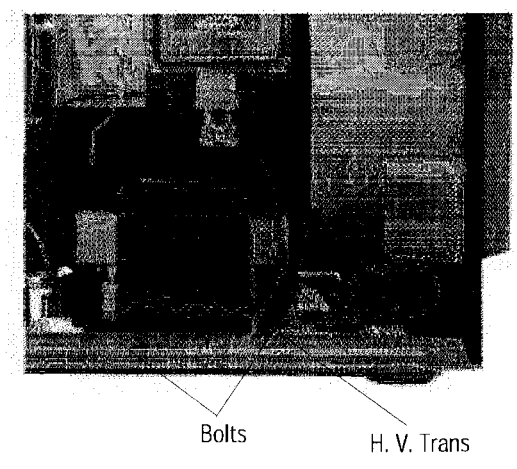
1. Discharge the high voltage capacitor.
2. Disconnect all the leads.
3. Remove the mounting bolts.
4. Reconnect the leads correctly and firmly.

PRECAUTION

Servicemen should remov their watches whenever working close to or replacing the magnetron.

PRECAUTION

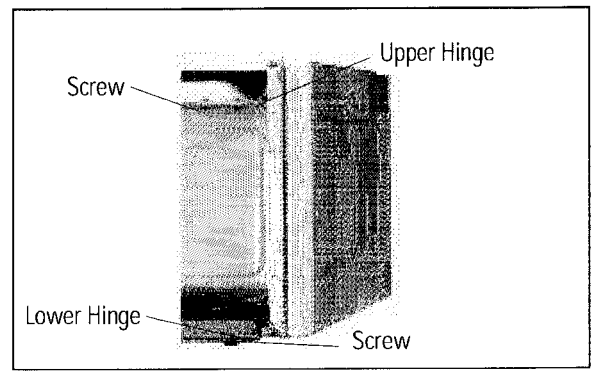
There exists HIGH VOLTAGE ELECTRICITY with high current capabilities in the circuits of the HIGH VOLTAGE TRANSFORMER secondary and filament terminals. It is extremely dangerous to work on or near these circuits with the oven energized. DO NOT measure the voltage in the high voltage circuit including filament voltage of magnetron.



4-3 Replacement of Door Assembly

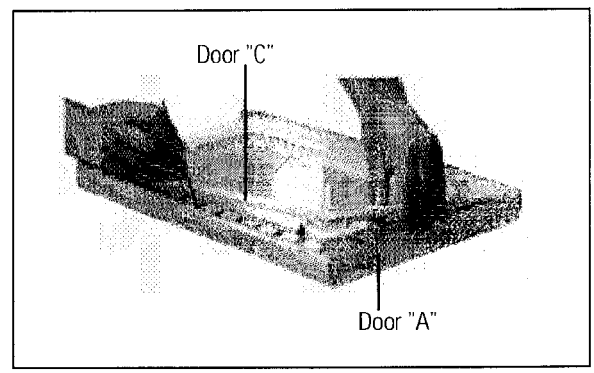
4-3-1 Removal of Door Assembly

Remove screws securing the upper hinge and lower hinge. Then remove the door assembly.



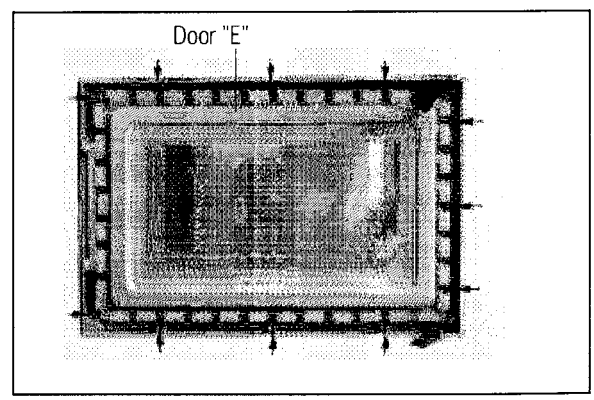
4-3-2 Removal of Door "C"

Insert flat screwdriver into the gap between Door "A" and Door "C" to remove Door "C". Be careful when handling Door "C" because it is fragile.



4-3-3 Removal of Door "E"

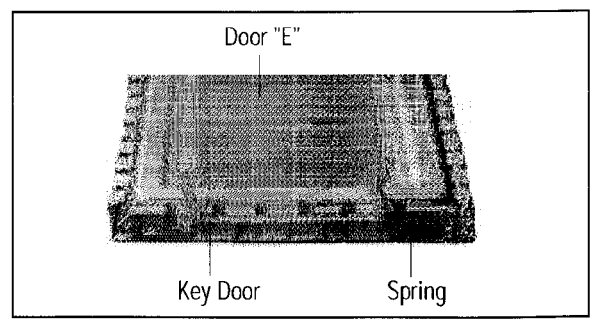
Following the procedure as shown in the figure, insert and bend a thin metal plate between Door "E" and Door "A" until you hear the 'tick' sound.



1. Insertion depth of the thin metal plate should be 0.5mm or less.

4-3-4 Removal of Key Door & Spring

Remove pin hinge from Door "E"
Detach spring from Door "E" and key door.



4-3-5 Reassembly Test

After replacement of the defective component parts of the door, reassemble it and follow the instructions below for proper installation and adjustment so as to prevent an excessive microwave leakage.

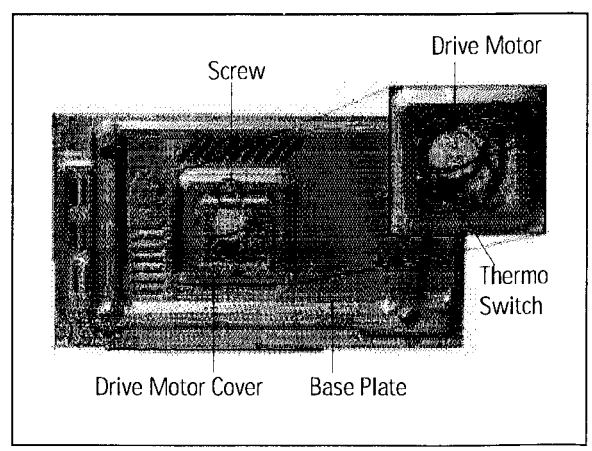
1. When mounting the door to the oven, be sure to adjust the door parallel to the bottom line of the oven face plate by moving the upper hinge and lower hinge in the direction necessary for proper alignment.
2. Adjust so that the door has no play between the inner door surface and oven front surface. If the door assembly is not mounted properly, microwave energy may leak from the space between the door and oven.
3. Do the microwave leakage test.

4-4 Replacement of Fuse

1. Disconnect the oven from the power source.
2. Remove the 10A fuse in the Noise filter.
3. When replacing the 10A fuse, be sure to use an exact replacement part. If new 10A fuse blows out again after replacement, check the primary interlock switch, Secondary switch and interlock monitor switch.
4. When the above three switches operate properly, check if any other part such as, blower motor or high voltage transformer is defective.

4-5 Replacement of Drive Motor

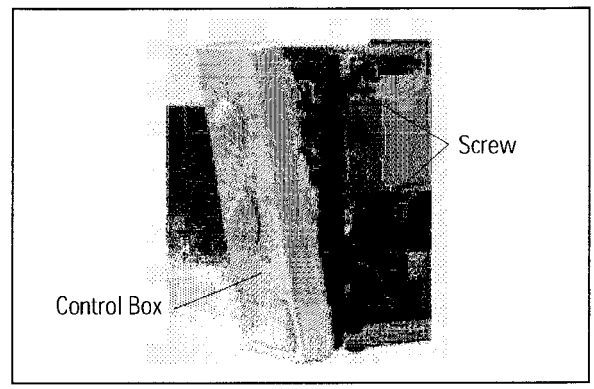
1. Take out the glass tray and guide roller from the cavity.
2. Turn the oven upside down to replace the drive motor.
3. Remove a screw securing the drive motor cover.
4. Disconnect all the lead wires from the drive motor.
5. Remove screws securing the drive motor to the cavity.
6. Remove the drive motor and coupler.
7. When replacing the drive motor, be sure to remount it in the correct position with the coupler.
8. Connect all the leads to the drive motor.
9. Screw the drive motor cover to the base plate with a screw driver.



4-6 Replacement of Control Box Assembly

4-6-1 Removal of Control Box Assembly

1. Disconnect the connectors from the control box assembly.
2. Remove screws securing the control box assembly.
3. Remove the knobs of the control box Ass'y.
4. Remove the screw securing the timer.



5. Alignment and Adjustments

PRECAUTION

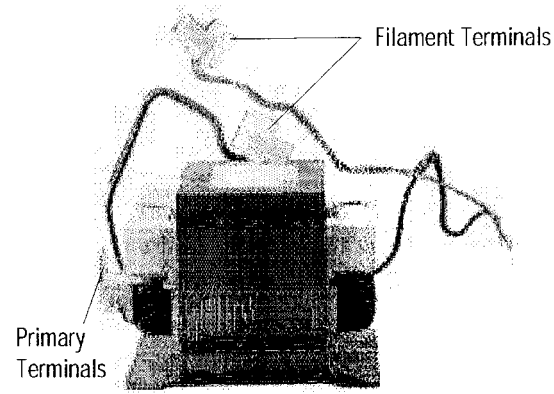
1. High voltage is present at the high voltage terminals during any cook cycle.
2. It is neither necessary nor advisable to attempt measurement of the high voltage.
3. Before touching any oven components or wiring, always unplug the oven from its power source and discharge the high voltage capacitor.

5-1 High Voltage Transformer

1. Remove connectors from the transformer terminals and check continuity.
2. Normal resistance readings are as follows:

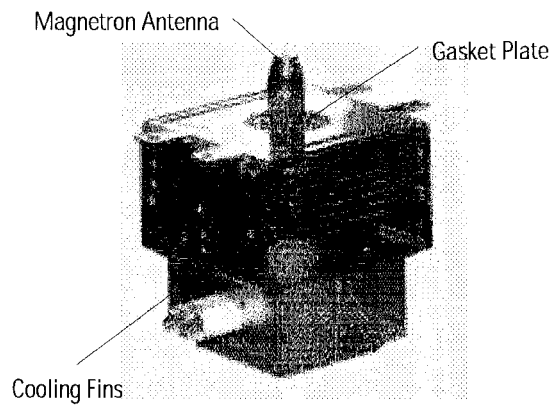
MODEL	SHV-945EG1
Secondary	103.0Ω ¡ 10%
Filament	Shows Continuity
Primary	1.6Ω ¡ 10%

(Room temperature = 20°C)



5-2 Magnetron

1. Continuity checks can indicate only an open filament or a shorted magnetron. To diagnose an open filament or shorted magnetron :
2. Isolate the magnetron from the circuit by disconnecting its leads.
3. A continuity check across the magnetron filament terminals should indicate one ohm or less.
4. A continuity check between each filament terminal and magnetron case should read open.



5-3 High Voltage Capacitor

1. Check continuity of the capacitor with the meter set at the highest resistance scale.
2. Once the capacitor is charged, a normal capacitor shows continuity for a short time, and then indicates 9MΩ.
3. A shorted capacitor will show continuous continuity.
4. An open capacitor will show constant 9MΩ.
5. Resistance between each terminal and chassis should read infinite.

5-4 High Voltage Diode

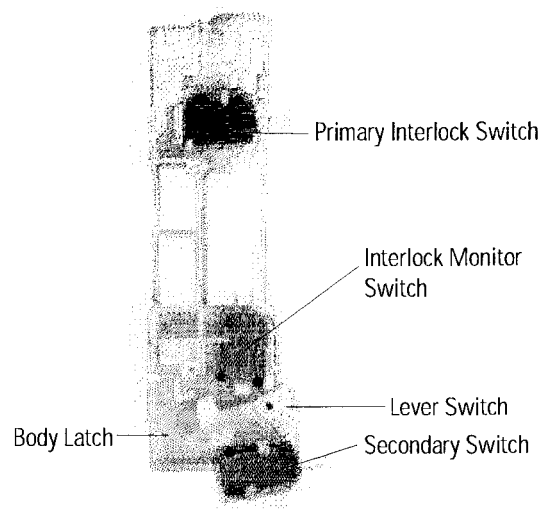
1. Isolate the diode from the circuit by disconnecting its leads.
2. With the ohm-meter set at the highest resistance scale, measure across the diode terminals. Reverse the meter leads and read the resistance. A meter with 6V, 9V or higher voltage batteries should be used to check the front-to back resistance of the diode (otherwise an infinite resistance may be read in both directions). The resistance of a normal diode will be infinite in one direction and several hundred KΩ in the other direction.

5-5 Adjustment of Primary Switch, Secondary Switch and Monitor Switch

Precaution

For continued protection against radiation hazard, replace parts in accordance with the wiring diagram and be sure to use the correct part number for the following switches: Primary and secondary switche, and the interlock monitor switch (replace all together). Then follow the adjustment procedures below. After repair and adjustment, be sure to check the continuity of all interlock switches and the interlock monitor switch.

1. When mounting Primary switch and Interlock Monitor switch to Latch Body, consult the figure.
2. No specific adjustment during installation of Primary switch and Monitor switch to the latch body is necessary.
3. When mounting the Latch Body to the oven assembly, adjust the Latch Body by moving it so that the oven door will not have any play in it. Check for play in the door by pulling the door assembly. Make sure that the latch keys move smoothly after adjustment is completed. Completely tighten the screws holding the Latch Body to the oven assembly.
4. Reconnect to Monitor switch and check the continuity of the monitor circuit and all latch switches again by following the components test procedures.
5. Confirm that the gap between the switch housing and the switch actuator is no more than 0.5mm when door is closed.



	Door Open	Door Closed
Primary switch	∞	0
Monitor switch (COM-NC)	0	∞
Secondary switch	∞	0

5-6 Output Power of Magnetron

CAUTION
MICROWAVE RADIATION

PERSONNEL SHOULD NOT ALLOW EXPOSURE TO MICROWAVE RADIATION FROM MICROWAVE GENERATOR OR OTHER PARTS CONDUCTING MICROWAVE ENERGY.

The output power of the magnetron can be measured by performing a water temperature rise test.
Equipment needed :
* Two 1-liter cylindrical borosilicate glass vessel (Outside diameter 190 mm)
* One glass thermometer with mercury column
NOTE: Check line voltage under load. Low voltage will lower the magnetron output. Make all temperature and time tests with accurate equipment.
1. Fill the one liter glass vessel with water.
2. Stir water in glass vessel with thermometer, and record the water temperature in the glass vessel("T_1", 10±1°C).
3. After moving the water into another glass vessel, place it in the center of the cooking tray. Set the oven to high power and operate for 48seconds exactly. (2 seconds included as a holding time of magnetron oscillation:)
4. When heating is finished, stir the water again with the thermometer and measure the temperature ("T2").
5. Subtract T1 from T2. This will give you the water temperature rise. (ΔT)
6. The output power is obtained by the following formula;

$$\text{Output Power} = \frac{4.187 \times 1000 \times \Delta T + 0.88 \times Mc \times (T_2 - T_0)}{46.5}$$

46.5: Heating Time (sec)
4.187 : Coefficient for Water
1000 : Water (cc)
ΔT : Temperature Rise (T2-T1)
Mc : Cylindrical borosilicate glass weight
To : Room temperature.

7. Normal temperature rise for this model is 9°C to 11°C at 'HIGH'.
NOTE 1: Variations or errors in the test procedure will cause a variance in the temperature rise. Additional power test should be made if temperature rise is marginal.
NOTE 2: Output power in watts is computed by multiplying the temperature rise (step 5) by a factor of 90 times the of centigrade temperature.

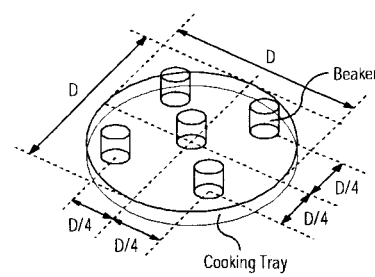
5-7 Microwave Heat Distribution - Heat Evenness

The microwave heat distribution can be checked indirectly by measuring the water temperature rise at certain positions in the oven:

1. Prepare five beakers made of 'Pyrex', having 100 milliliters capacity each.
2. Measure exactly 100milliliters off water load with a measuring cylinder, and pour into each beaker.
3. Measure the temperature of each water load. (Readings shall be taken to the first place of decimals.)
4. Put each beaker in place on the cooking tray as illustrated in figure below. Start heating.
5. After heating for 2 minutes, measure the water temperature in each beaker.
6. Microwave heat distribution rate can be calculated as follows:

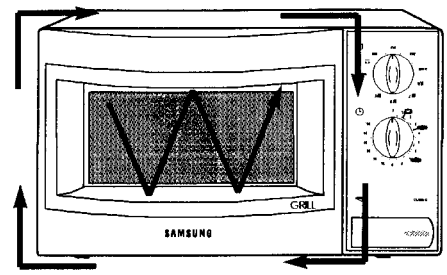
$$\text{Heat Distribution} = \frac{\text{Minimum Temperature Rise}}{\text{Maximum Temperature Rise}} \times 100(\%)$$

The result should exceed 65%.



5-10 Procedure for Measurement of Microwave Energy Leakage

1) Pour 275±15cc of 20±5°C (68¡ 9°F) water in a beaker which is graduated to 600cc, and place the beaker in the center of the oven.
2) Start to operate the oven and measure the leakage by using a microwave energy survey meter.
3) Set survey meter with dual ranges to 2,450MHz.
4) When measuring the leakage, always use the 2 inch spacer cone with the probe. Hold the probe perpendicular to the cabinet door. Place the spacer cone of the probe on the door and/or cabinet door seam and move along the seam, the door viewing window and the exhaust openings moving the probe in a clockwise direction at a rate of 1 inch/sec. If the leakage testing of the cabinet door seam is taken near a corner of the door, keep the probe perpendicular to the areas making sure that the probe end at the base of the cone does not get closer than 2 inches to any metal. If it gets closer than 2 inches, erroneous readings may result.

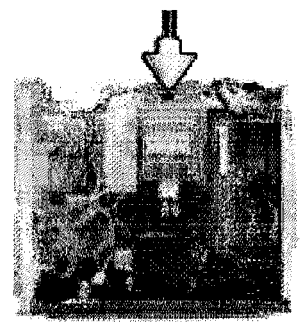


5) Measured leakage must be less than 4mW/cm², after repair or adjustment.

Maximum allowable leakage is 5mW/cm².
4mW/cm² is used to allow for measurement and meter accuracy

5-11 Check for Microwave Leakage

1. Remove the outer panel.
2. Pour 275±15cc of 20±5°C(68±9°F) water in a beaker which is graduated to 600cc, and place the beaker in the center of the oven.
3. Start the oven at the highest power level.
4. Set survey meter dual ranges to 2,450MHz.
5. Using the survey meter and spacer cone as described above, measure arnear the opening of magnetron, the surface of the air guide and the surface of the wave guide as shown in the following photo.(but avoid the high voltage components.) The neading should be less than 5mW/cm².



5-12 Note on Measurement

1) Do not exceed the limited scale.
2) The test probe must be held on the grip of the handle, otherwise a false reading may result when the operator's hand is between the handle and the probe.
3) When high leakage is suspected, do not move the probe horizontally along the oven surface; this may cause damage to the probe.
4) Follow the recommendation of the manufacturer of the microwave energy survey meter.

5-13 Leakage Measuring Procedure

5-13-1 Record keeping and notification after measurement
1) After adjustment and repair of a radiarion preventing device, make a repair record for the measured values, and keep the data.
2) If the radiation leakage is more than 5 mW/cm² after determining that all parts are in good condition, functioning properly and the identical parts are replaced as listed in this manual notift that fact to ;

CENTRAL SERVICE CENTER

5-13-2 At least once a year have the microwave energy survey meter checked for accuracy by its manufacturer.

6. Troubleshooting

WARNING FOR HIGH VOLTAGE

4000 VOLTS EXIST AT THE HIGH VOLTAGE AREA. DO NOT OPERATE THE OVEN WITH CABINET PARTS REMOVED. DO NOT REMOVE THE CABINET PARTS IF THE POWER SUPPLY CORD IS PLUGGED IN THE WALL OUTLET. UNPLUG THE POWER CORD BEFORE SERVICING.

6-1 Electrical Malfunction

Parts	Cause	Diagnosis	Remedy
Fuse blows out when door is opened.	Defective primary interlock switch	Check continuity of the primary switch terminals with wire removed using a multimeter. If there is continuity between switch terminals when door is opened, the switch is defective.	Replace the primary interlock switch
	Defective interlock monitor switch	Check continuity of the monitor switch terminals with wire removed by using a multimeter. If there is continuity between switch terminals when the door is closed, the switch is defective.	Replace the interlock monitor switch
Fuse is Transformer open.	Layer short of the secondary coil of H. V. Transformer	The fuse will not blow right away, but if it blows in a few seconds, then there is a layer short. If the fuse blows with H. V. Trans secondary open, the transformer may be faulty.	Replace H. V.
Oven lamp does not light.	1) Poor contact of power cord	Check continuity of power supply cord. Also check whether the power cord is securely wired.	Adjust or replace the power supply cord.
	2) Defective lamp	The fan motor rotates, but lamp does not light.	Replace the lamp.
	3) Defective timer contacts	Check the terminals of timer for continuity, turning the timer knob ON and OFF repeatedly.	Replace the timer.
Fan does not operate.	1) Defective fan motor.	If 230V is found at motor terminals, the motor should be replaced.	Replace the motor.
	2) Defective contacts of timer	The oven lamp does not light and fan motor does not operate.	Replace the timer.

NOTE: Interlock monitor switch must be replaced when the fuse is blown out.

6-1 Electrical Malfunction (Continved)

Parts	Cause	Diagnosis	Remedy
Microwave turns off during cooking cycle.	1) Too small a load	If a small amount of food is heated for a long time, period of microwave may turn off during operation.	To increase the oven load, add a glass of water into the oven.
	2) Defective magnetron thermal cutout S/W	Check to see if the magnetron thermal cutout switch is activated at a temperature higher than 150°C.	Replace thermal cutout switch.
Electric shock is felt.	Incomplete grounding	Make sure that grounding of the power supply cord has been done properly.	Rewire.
Door does not operate properly	1) Broken door hinges	Remove the cabinet for inspection. Check the door hinge.	Replace door hinges.
	2) Missing or loose screw	Check if the screws are secured well to the door hinge.	Fasten or tighten.
Timer does not operate.	1) Defective timer motor	If the timer does not operate with 230V applied to the terminals, the timer motor amy be faulty.	Replace timer.
	2) Defective contacts of timer S/W	The lamp does not light.	Replace timer
Cooking tray does not rotate	Defective drive motor	Check to see if 21V exists at the motor terminals. If so, motor will be defective.	Replace drive motor.
Magnetron thermal cutout switch OFF	1) Blocking of the ventilation	Check if the air inlet or outlet ventilation is blocked by the wall or other objects.	Keep a distance of 100mm from the wall or the objects.
	2) Defective fan motor	If the fan motor does not operate with 230V applied to the terminal, the motor may be faulty.	Replace fan motor.
	3) Too small a load or no load	If a small amount of food is heated repeatedly over a long period of time, microwave turns off during operation.	To increase the oven load, place a glass of water into the oven.

6-2 Unsatisfactory Cooking

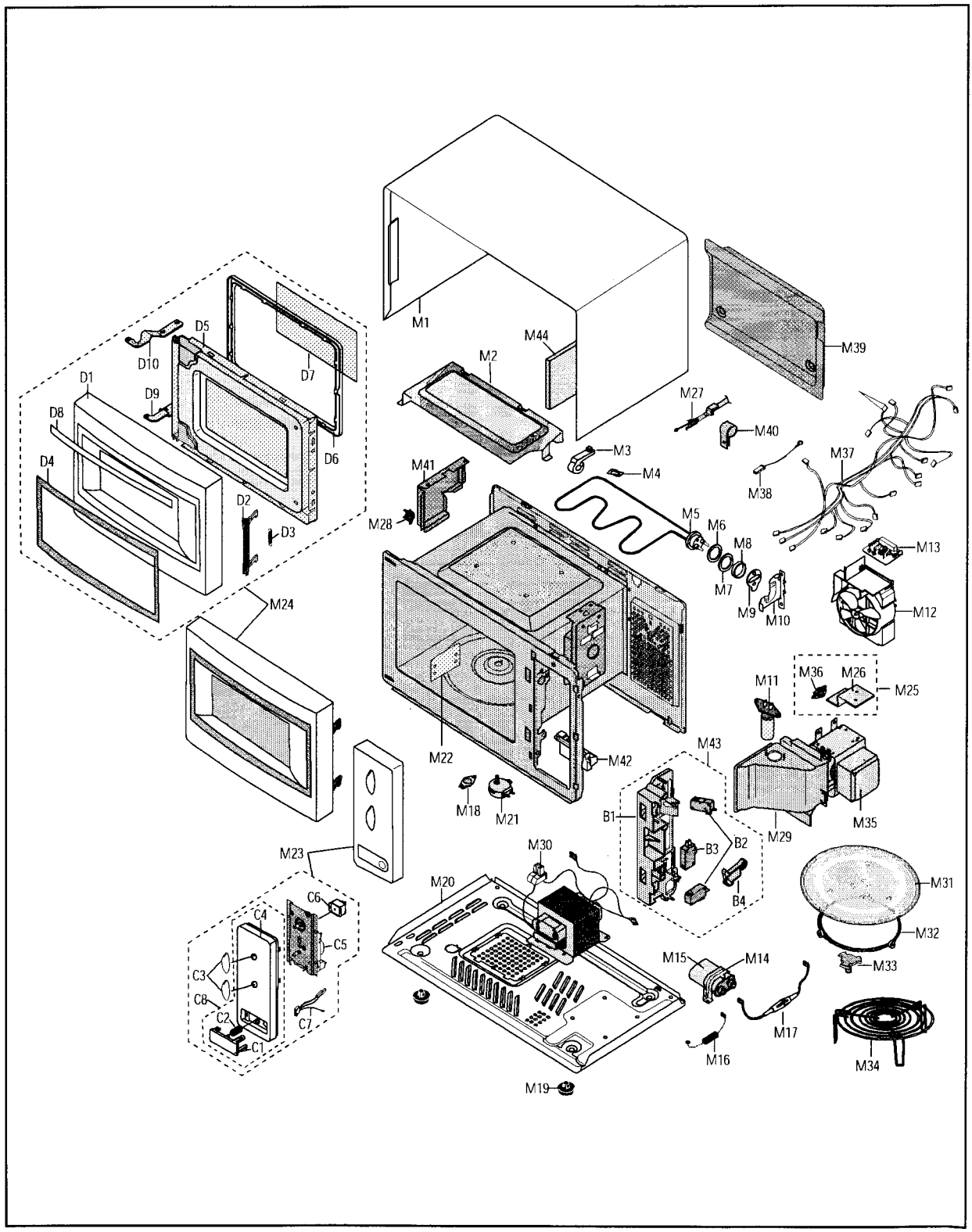
Parts	Cause	Diagnosis	Remedy
Food is not heated.	1) Open cathode of magnetron	Check the terminals with a multimeter to see if the heater circuit is open.	Replace magnetron.
	2) Defective H. V. Diode	Check the H. V. Diode for continuity in the reverse and normal directions using megger. If there is continuity in the reverse direction, the H. V. Diode may be faulty. (In this event H. V. Capacitor will be hot)	Replace H. V. Diode.
	3) Shorted magnetron	Connect megger leads to quick-connect terminal & body of the magnetron if there is continuity, the magnetron may be faulty. (In this case the main fuse will be blown)	Replace magnetron.
	4) Defective magnetron	If there is a crack in the magnetron antenna (dome), the magnetron is defective.	Replace magnetron.
	5) Poor contact of primay interlock switch	Check if the screws are secured well to the door hinge. and pressing it ON and OFF repeatedly.	Replace or adjust.
	6) Open coil of H. V. Trans-former	Check the continuity of primary coil and secondary coil. If there is no continuity, H. V. Transformer is defective.	Replace the H. V. Transformer.
	7) Shorted H. V. capacitor	Check the continuity of capacitor. If the capacitor shorts, the fuse blows	Replace the H. V. Capacitor.

6-3 Part Check List

Symptom	Related Parts	Check Points	Remedy
Microwave cooking does not work.	H.V.Transformer	1) Check if the primary and secondary coil is open or shorted. * Resistance of primary coil: Approx. 1.60§ Resistance of secondary coil: Approx. 103.0§ 2) Check if the MGT Heater Voltage is approx. 3.3V AC. **Caution : High voltage !**	Replace.
	H.V.Capacitor	Check continuity of capacitor between two terminals with H.V.wire lead removed. The resistance should be approx. 10MΩ, it's failure.	Replace.
	H.V.Diode	1) If there is no continuity in forward, direction the H.V.Diode is open. 2) If there is continuity in reverse direction, it's shorted.	Replace.
Fan motor does not rotate.	Fan motor	Check if the motor coil is open.	Replace.

7. Exploded Views and Parts List

7-1 Exploded Views



7-2 Main Parts List

Ref. No.	Parts No.	Description/Specification	Q'ty	Remarks
M 1	DE70-30001A	PANEL-OUTER;SECC T0.6 360 1128 EPOXY-COA	1	●
M 2	DE61-50017A	BRACKET-UPPER;SECC1 T0.6 340 216	1	
M 3	DE61-30006A	SUPPORTER-HEATER;ALUMINA 5G 2ND-W/P	1	
M 4	DE61-70060A	SPRING-PLATE;SK-5 T0.5	1	
M 5	DE47-70031G	HEATER-GRILL;D6.6 230V1280W M9G45 SJH	1	● ⚠
M 6	DE63-20017A	GASKET-HEATER;BRASS T1.5 OD30.5 ID22.5	1	
M 7	DE60-40009B	WASHER-TEFLON;SLOT ID22.2 OD28 T1.2 TEFL	1	
M 8	DE61-50021A	BRACKET-FLANGE;SECC1 T0.8 32 32	1	
M 9	DE61-50027B	BRACKET-HEATER;SECC T1.0 W51 L55 CE945GF	1	
M 10	DE61-50347A	BRACKET-EARTH;BSS2-A T1.0 W35 L43 MBGF45	1	
M 11	4713-001031	LAMP-INCANDESCENT;230V,173mA,40W,ORG,-,-,25	1	
M 12	DE31-10156A	MOTOR-FAN;SMF-945EA 230/50 2400 M97G45	1	
M 13	DE91-40095A	ASSY NOISE FILTER;SN-E10D(N) 250V 10A "2	1	
M 14	DE61-50106A	BRACKET-HVC;SECC T0.8 W31 L125.8	1	
M 15	2501-001030	C-OIL;1.1uF,2100V,BK,35x54x95,20mm	1	
M 16	DE59-40001A	DIODE-H.V;HVR-1X-32B-12	1	● ⚠
M 17	DE91-70061A	ASSY-H.V.FUSE;THV060T-0800-H 5KV/0.8A WH	1	
M 18	DE47-20008A	THERMOSTAT;PW2N-52JC 100/60 250V/7.5A H	1	
M 19	DE61-40017A	FOOT;PP(A353) BLK MW5630T	2	
M 20	DE80-10001A	BASE-PLATE;SGCC T0.8 345 565	1	
M 21	DE31-10154A	MOTOR-DRIVE;M2HJ49ZR02,ST-16 21V 5/6	1	
M 22	DE71-60382A	COVER-CEILING;MICASHEET T0.5 70 133	1	
M 23		ASSY CONTROL-BOX;230V50HZ CE935G(SSW) 900W	1	● ⚠
M 24		ASSY DOOR;BUTTON WHT CE945GR(SBTW) RUSSIA	1	● ⚠
M 25	DE91-70101C	ASSY-THERMOSTAT;ME5574W 160/60 187-HORIZ	1	
M 26	DE61-50490A	BRACKET-TCO;SECC1 T0.6 34 58	1	
M 27	DE39-20058E	ASSY POWER CORD;KKP4819D/B232 230V/16A L	1	●
M 28	DE47-20161A	THERMOSTAT;PW2N(120/110)187Z23. 250V/7.5	1	
M 29	DE71-60016A	COVER-AIR;PP 2 WHT M945/MB45	1	
M 30	DE26-10100A	TRANS-H.V;SHV-945EG1 230V 2280V/3.15V 50	1	● ⚠
M 31	DE74-20015B	TRAY-COOKING;GLASS T6.0 PI318 1050G MW56	1	
M 32	DE92-90189D	ASSY-GUIDE ROLLER;D19 STD	1	
M 33	DE67-60075A	COUPLER;PPS 7G BRN M97G45	1	
M 34	DE74-70003B	RACK-WIRE;MSWR3 3 3 290 125 SNC2	1	
M 35	DE03-30035A	MAGNETRON;OM75PH((31)ESS	1	● ⚠
M 36	DE47-20009A	THERMOSTAT;CS-7SA(160/60)187Y 250V7.5A 1	1	
M 37	DE39-40569A	WIRE HARNESS-A;230V50HZ CE935G/CE73	1	
M 38	DE39-40409A	WIRE HARNESS-E;230V50HZ M9G45 CTW	1	
M 39	DE71-60015A	COVER-BACK;SECC1 T0.5 353 526 CE945G	1	
M 40	DE65-20014A	CABLE CLAMP;DA-6N NY-66	1	
M 41	DE72-60005A	GUIDE-AIR;SECC1-P T0.5 210 225	1	
M 42	DE66-90013A	LEVER-DOOR;POM(F20-01) NTR MW5630T	1	
M 43	DE93-20001A	ASSY BODY LATCH;2ND-W1 M97G45/M9745	1	
M 44	DE63-90035G	CUSHION-RUBBER;DFA20 T2 W190 L100 BLK	1	

● : Option Parts ⚠ : Warning ⚠ :Electrostatically Sensitive Devices

7-3 Door Parts List

Ref. No.	Parts No.	Description/Specification	Q'ty	Remarks
D 1	DE64-40011A	DOOR-A;RESIN-ABS(HR-0370U) T2.5 M945(IDE	1	●
D 2	DE64-40006A	DOOR-KEY;POM(TC3005) T2.0 12GR BLK CE9	1	●
D 3	DE61-70032A	SPRING-KEY;ES HSWR PI0.6 D5.4 L25 MW8640	1	
D 4	DE67-20003D	SCREEN-DOOR;PC T1.5 L197.4 W401.5 WHT(GRI	1	
D 5	DE92-50127H	ASSY DOOR-E;COATING BLACK T0.8	1	● ⚠
D 6	DE64-40012A	DOOR-C;RESIN-PP(TB53) T2.0 CE945GF BLA	1	●
D 7	DE01-00002A	FILM-DOOR;PET T0.15 275 175 NTR CE945GF	1	●
D 8	DE02-00125A	TAPE-DOUBLE FACE;ACRYL T0.45 W9 WHT WF103	1	●
D 9	DE61-80003A	HINGE-LOWER;SCP1 T2.3 26 77 ZPC3 WHT CHR	1	
D 10	DE61-80002A	HINGE-UPPER;SCP1 T2.3 26 77 ZPC3 WHT CHR	1	

7-4 Control Parts List

Ref. No.	Parts No.	Description/Specification	Q'ty	Remarks
C 1	DE66-20006A	BUTTON-PUSH;RESIN-ABS(HR-0370U) P/WHT M9	1	●
C 2	DE61-70076A	SPRING-BUTTON;HSWR PI0.6	1	
C 3	DE64-10123A	KNOB;ABS PURE-WHT M97G35	2	● ⚠
C 4	DE72-70008B	CONTROL-PANEL;ABS(HR0370U) WHT T2.5 CE935G	1	●
C 5	DE45-10076A	TIMER-ASSY;TMFK60MTB1 220V/240V 310-GRIL	1	● ⚠
C 6	3501-000309	RELAY-POWER;CHP11-A240S-250V15A 240V,375	1	
C 7	DE39-40333B	WIRE HARNESS-B;230V50HZ CE735G/CE93	1	
C 8	DE93-30535B	ASSY CONTROL-PANEL;CE935G(SSW) WHT	1	

7-5 Body Latch Parts List

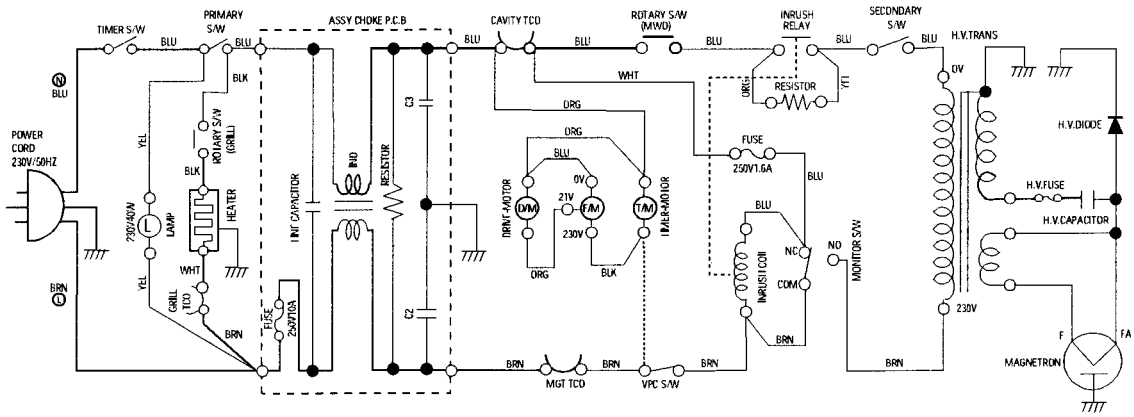
Ref. No.	Parts No.	Description/Specification	Q'ty	Remarks
B 1	DE66-40001A	LATCH-BODY;POM(F20-02) 40GR NTR	1	●
B 2	3405-000178	SWITCH-MICRO;VP-533A-OF-PS(T85) 250V,15A	2	
B 3	3405-000175	SWITCH-MICRO;VP-531A-OF(T85) 250V,15A,20	1	
B 4	DE66-90001A	LEVER-SWITCH;P.O.M(F20-02) 2 6 NTR 2ND-W	1	●

7-6 Standard Parts List

Parts No.	Description / Specification	Q'ty	Remarks
DE60-10033A	SCREW-TH;TH + M4 L10 MSWR10 FEFZY	1	RELAY
DE60-10069A	SCREW-TAP TH;TH M4 L10 FRFZY	4	TIMER
DE60-10012A	SCREW-TAP TITE;TH + 3 M4 L10 SWR10 ZPC2	1	BASE
DE60-10069A	SCREW-TAP TH;TH M4 L10 FRFZY	1	CV/AIR
DE60-10122A	SCREW-TAP TH;TAP TH 2-4X8 FE FN	2	C-CEIL
DE60-10082A	SCREW-A;M4 L12 2S TOOTHED	5	O/PANE
DE60-10082A	SCREW-A;M4 L12 2S TOOTHED	2	BASE
DE60-10082A	SCREW-A;M4 L12 2S TOOTHED	2	CON-PA
DE60-10082C	SCREW-TAP TH;TH M4 L8 MSWR3 ZPC YWL WS	1	B-HVC
DE60-10098A	SCREW-ASSY TAPTITE;PH TC M4X8 SWRCH18A Z	1	CV-TCO
DE60-10098A	SCREW-ASSY TAPTITE;PH TC M4X8 SWRCH18A Z	2	MGT-TC
DE60-10098A	SCREW-ASSY TAPTITE;PH TC M4X8 SWRCH18A Z	2	MO/DRI
DE60-10080A	SCREW-WASHER;M5 L12 2S	4	HVT
DE60-10080A	SCREW-WASHER;M5 L12 2S	4	MGT
DE60-10082A	SCREW-A;M4 L12 2S TOOTHED	2	B/LATC
DE60-10033A	SCREW-TH;TH + M4 L10 MSWR10 FEFZY	2	HI-UPP
DE60-10033A	SCREW-TH;TH + M4 L10 MSWR10 FEFZY	2	HI-LOW
DE60-10012A	SCREW-TAP TITE;TH + 3 M4 L10 SWR10 ZPC2	1	NO-FIL
DE60-10012A	SCREW-TAP TITE;TH + 3 M4 L10 SWR10 ZPC2	1	P-CO-E
DE60-10013A	SCREW-ASSY TAP;TH 2S 4 L12 MSWR3 ZPC3 FI	1	C-BLOW
DE60-10018A	SCREW-ASSY MACHINE;PH M4X0.7P 8 MSWR10 S	2	B/EATH
DE60-10069A	SCREW-TAP TH;TH M4 L10 FRFZY	3	B/UPP
DE60-10045A	SCREW-TAP PH;PH M3 L6 FEFZY	1	AR-TCO
DE60-10024A	SCREW-PH;PH + M4 L8 MSWR10 ZPC3	2	B/HEAT
DE60-10072A	SCREW-TAP TH;TH M4 L16 FEFZY 2-SLOT	1	CB-CMP

8. Schematic Diagrams

8-1 Schematic Diagrams



CONDITION OF OVEN

DOOR IS OPENED

COOK OFF

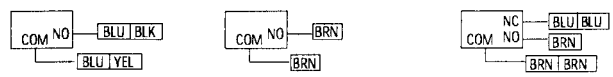
FUNCTION ROTARY S/W

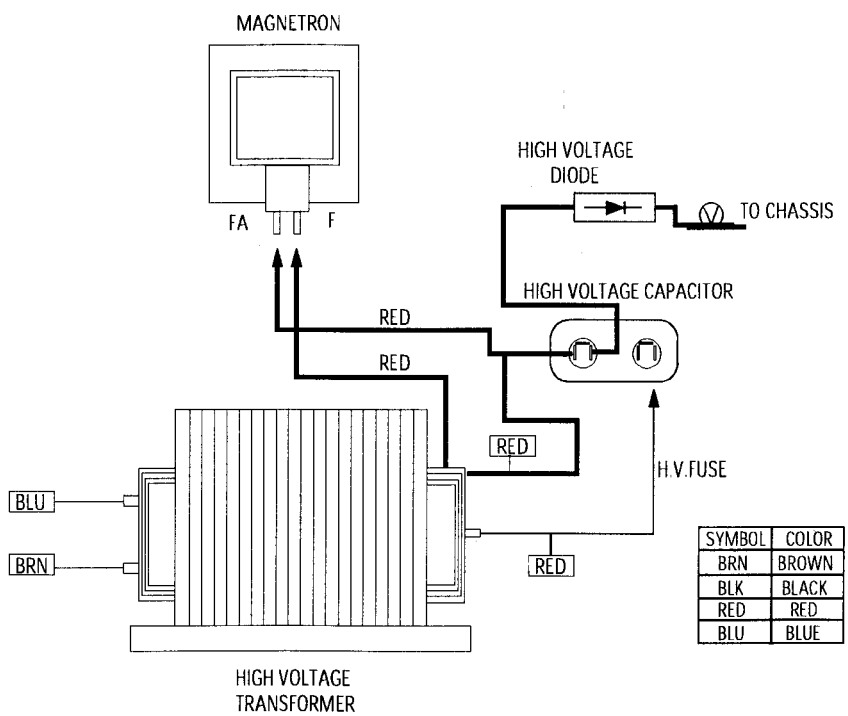
MWO	(MWO)	(S/W)		GRILL	(MWO)	(S/W)		COMBI	(MWO)	(S/W)	
	(GRILL)	(S/W)			(GRILL)	(S/W)			(GRILL)	(S/W)	

WIRING COLOR

BRN : BROWN
WHT : WHITE
RED : RED
BLK : BLACK
Y/G : YELLOW GREEN

BLU : BLUE
ORG : ORANGE
YEL : YELLOW





SYMBOL	COLOR
BRN	BROWN
BLK	BLACK
RED	RED
BLU	BLUE